# Exam Questions AI-102

Designing and Implementing an Azure AI Solution

**https://www.2passeasy.com/dumps/AI-102/**

**NEW QUESTION 1**
- (Exam Topic 1)
You are planning the product creation project.
You need to recommend a process for analyzing videos.
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order. (Choose four.)

**Actions**

| Index the video by using the Video Indexer API. |
| Upload the video to blob storage. |
| Analyze the video by using the Computer Vision API. |
| Extract the transcript from Microsoft Stream. |
| Send the transcript to the Language Understanding API as an utterance. |
| Extract the transcript from the Video Indexer API. |
| Translate the transcript by using the Translator API. |
| Upload the video to file storage. |

**Answer Area**

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Scenario: All videos must have transcripts that are associated to the video and included in product descriptions.
Product descriptions, transcripts, and all text must be available in English, Spanish, and Portuguese. Step 1: Upload the video to blob storage
Given a video or audio file, the file is first dropped into a Blob Storage. T Step 2: Index the video by using the Video Indexer API.
When a video is indexed, Video Indexer produces the JSON content that contains details of the specified video insights. The insights include: transcripts, OCRs, faces, topics, blocks, etc.
Step 3: Extract the transcript from the Video Indexer API. Step 4: Translate the transcript by using the Translator API. Reference:
https://azure.microsoft.com/en-us/blog/get-video-insights-in-even-more-languages/ https://docs.microsoft.com/en-us/azure/media-services/video-indexer/video-indexer-output-json-v2

**NEW QUESTION 2**
- (Exam Topic 1)
HOTSPOT
You are developing the shopping on-the-go project.
You are configuring access to the QnA Maker resources.
Which role should you assign to AllUsers and LeadershipTeam? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

**Answer Area**

AllUsers:

| Cognitive Service User |
| Contributor |
| Owner |
| QnA Maker Editor |
| QnA Maker Read |

LeadershipTeam:

| Cognitive Service User |
| Contributor |
| Owner |
| QnA Maker Editor |
| QnA Maker Read |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: QnA Maker Editor
Scenario: Provide all employees with the ability to edit Q&As. The QnA Maker Editor (read/write) has the following permissions: Create KB API
Update KB API Replace KB API Replace Alterations "Train API" [in
new service model v5] Box 2: Contributor
Scenario: Only senior managers must be able to publish updates. Contributor permission: All except ability to add new members to roles
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/reference-role-based-access-control
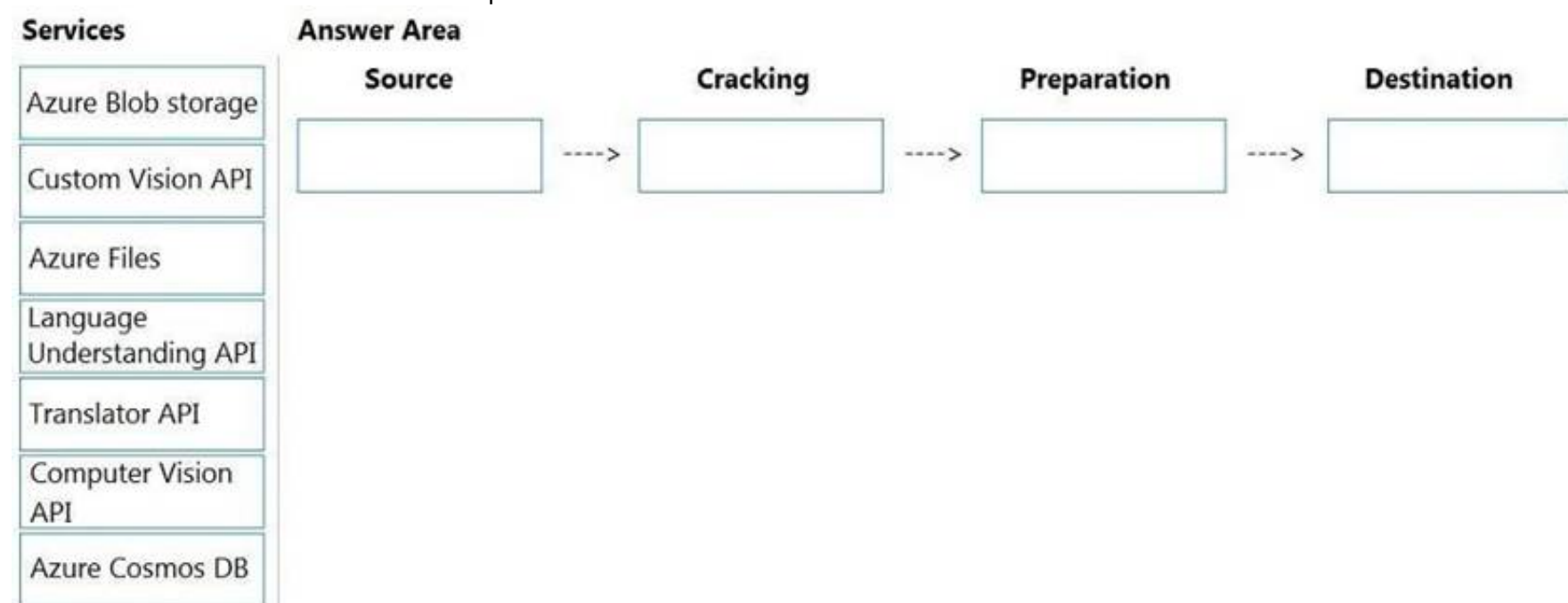
**NEW QUESTION 3**
- (Exam Topic 1)
You are developing the smart e-commerce project.
You need to design the skillset to include the contents of PDFs in searches.
How should you complete the skillset design diagram? To answer, drag the appropriate services to the correct stages. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Azure Blob storage
At the start of the pipeline, you have unstructured text or non-text content (such as images, scanned documents, or JPEG files). Data must exist in an Azure data storage service that can be accessed by an indexer.
Box 2: Computer Vision API
Scenario: Provide users with the ability to search insight gained from the images, manuals, and videos associated with the products.
The Computer Vision Read API is Azure's latest OCR technology (learn what's new) that extracts printed text (in several languages), handwritten text (English only), digits, and currency symbols from images and
multi-page PDF documents.
Box 3: Translator API
Scenario: Product descriptions, transcripts, and all text must be available in English, Spanish, and Portuguese. Box 4: Azure Files
Scenario: Store all raw insight data that was generated, so the data can be processed later. Reference:
https://docs.microsoft.com/en-us/azure/search/cognitive-search-concept-intro https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-ocr

**NEW QUESTION 4**
- (Exam Topic 1)
You are developing the smart e-commerce project.
You need to implement autocompletion as part of the Cognitive Search solution.
Which three actions should you perform? Each correct answer presents part of the solution. (Choose three.) NOTE: Each correct selection is worth one point.

A. Make API queries to the autocomplete endpoint and include suggesterName in the body.
B. Add a suggester that has the three product name fields as source fields.
C. Make API queries to the search endpoint and include the product name fields in the searchFields query parameter.
D. Add a suggester for each of the three product name fields.
E. Set the searchAnalyzer property for the three product name variants.
F. Set the analyzer property for the three product name variants.

**Answer:** ABF

**Explanation:**
Scenario: Support autocompletion and autosuggestion based on all product name variants.
A: Call a suggester-enabled query, in the form of a Suggestion request or Autocomplete request, using an API. API usage is illustrated in the following call to the

Autocomplete REST API.
POST /indexes/myxboxgames/docs/autocomplete?search&api-version=2020-06-30
{
"search": "minecraf", "suggesterName": "sg"
}
B: In Azure Cognitive Search, typeahead or "search-as-you-type" is enabled through a suggester. A suggester provides a list of fields that undergo additional tokenization, generating prefix sequences to support matches on partial terms. For example, a suggester that includes a City field with a value for "Seattle" will have prefix combinations of "sea", "seat", "seatt", and "seattl" to support typeahead.
F: Use the default standard Lucene analyzer ("analyzer": null) or a language analyzer (for example, "analyzer": "en.Microsoft") on the field.
Reference:
https://docs.microsoft.com/en-us/azure/search/index-add-suggesters


**NEW QUESTION 5**
- (Exam Topic 2)
You are building a chatbot that will provide information to users as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: A Thumbnail card
A Thumbnail card typically contains a single thumbnail image, some short text, and one or more buttons. Reference:
https://docs.microsoft.com/en-us/microsoftteams/platform/task-modules-and-cards/cards/cards-reference

## NEW QUESTION 6

- (Exam Topic 2)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a web app named app1 that runs on an Azure virtual machine named vm1. Vm1 is on an Azure virtual network named vnet1.

You plan to create a new Azure Cognitive Search service named service1.

You need to ensure that app1 can connect directly to service1 without routing traffic over the public internet. Solution: You deploy service1 and a public endpoint, and you configure a network security group (NSG) for

vnet1.

Does this meet the goal?

A. Yes
B. No

**Answer:** B

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/private-link/private-link-overview

## NEW QUESTION 7

- (Exam Topic 2)

You are developing a solution to generate a word cloud based on the reviews of a company's products. Which Text Analytics REST API endpoint should you use?

A. IceyPhrases
B. sentiment
C. languages
D. entities/recognition/general

**Answer:** A

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/overview

## NEW QUESTION 8

- (Exam Topic 2)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You build a language model by using a Language Understanding service. The language model is used to search for information on a contact list by using an intent named FindContact.

A conversational expert provides you with the following list of phrases to use for training. Find contacts in London. Who do I know in Seattle?

Search for contacts in Ukraine.

You need to implement the phrase list in Language Understanding. Solution: You create a new pattern in the FindContact intent.

Does this meet the goal?

A. Yes
B. No

**Answer:** B

**Explanation:**
Instead use a new intent for location.

Note: An intent represents a task or action the user wants to perform. It is a purpose or goal expressed in a user's utterance.

Define a set of intents that corresponds to actions users want to take in your application. Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-intent

## NEW QUESTION 9

- (Exam Topic 2)

You have the following C# method for creating Azure Cognitive Services resources programmatically.

```
static void create_resource(CognitiveServicesManagementClient client, string
resource_name, string kind, string account_tier, string location)
{
    CognitiveServicesAccount parameters =
        new CognitiveServicesAccount(null, null, kind, location, resource_name,
new CognitiveServicesAccountProperties(), new Sku(account_tier));
    var result = client.Accounts.Create(resource_group_name, account_tier,
parameters);
}
```

You need to call the method to create a free Azure resource in the West US Azure region. The resource will be used to generate captions of images automatically.

Which code should you use?

A. create_resource(client, "res1", "ComputerVision", "F0", "westus")
B. create_resource(client, "res1", "CustomVision.Prediction", "F0", "westus")
C. create_resource(client, "res1", "ComputerVision", "S0", "westus")
D. create_resource(client, "res1", "CustomVision.Prediction", "S0", "westus")

**Answer:** B

**Explanation:**
Many of the Cognitive Services have a free tier you can use to try the service. To use the free tier, use F0 as the SKU for your resource.
There are two tiers of keys for the Custom Vision service. You can sign up for a F0 (free) or S0 (standard) subscription through the Azure portal.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-apis-create-account-client-library? https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/limits-and-quotas

**NEW QUESTION 10**
- (Exam Topic 2)
You build a custom Form Recognizer model.
You receive sample files to use for training the model as shown in the following table.

| Name | Type | Size |
|------|------|------|
| File1 | PDF | 20 MB |
| File2 | MP4 | 100 MB |
| File3 | JPG | 20 MB |
| File4 | PDF | 100 MB |
| File5 | GIF | 1 MB |
| File6 | JPG | 40 MB |

Which three files can you use to train the model? Each correct answer presents a complete solution. (Choose three.)
NOTE: Each correct selection is worth one point.

A. File1
B. File2
C. File3
D. File4
E. File5
F. File6

**Answer:** ACF

**Explanation:**

Input requirements
Form Recognizer works on input documents that meet these requirements:
Format must be JPG, PNG, PDF (text or scanned), or TIFF. Text-embedded PDFs are best because there's no possibility of error in character extraction and location.
File size must be less than 50 MB. Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/form-recognizer/overview

**NEW QUESTION 10**
- (Exam Topic 2)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more
than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You create a web app named app1 that runs on an Azure virtual machine named vm1. Vm1 is on an Azure virtual network named vnet1.
You plan to create a new Azure Cognitive Search service named service1.
You need to ensure that app1 can connect directly to service1 without routing traffic over the public internet. Solution: You deploy service1 and a public endpoint to a new virtual network, and you configure Azure
Private Link.
Does this meet the goal?

A. Yes
B. No

**Answer:** A

**Explanation:**

Reference:
https://docs.microsoft.com/en-us/azure/private-link/private-link-overview

**NEW QUESTION 15**
- (Exam Topic 2)
You are developing an application to recognize employees' faces by using the Face Recognition API. Images of the faces will be accessible from a URI endpoint.
The application has the following code.

```
static async void AddFace(string subscription_key, string personGroupId, string personId, string imageURI)
{
  var client = new HttpClient();
  client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", subscription_key);
  var endpointURI = $"https://westus.api.cognitive.microsoft.com/face/v1.0/persongroups/{personGroupId}/persons/{personId}/persistedFaces";
  HttpResponseMessage response;
  var body = "{ \"url\": \"" + imageURI + "\"}";
  var content = new StringContent(body, Encoding.UTF8, "application/json");
  var response = await client.PutAsync(endpointURI, content);
}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

| Statements | Yes | No |
|---|---|---|
| The code will add a face image to a person object in a person group. | ○ | ○ |
| The code will work for a group of 10,000 people. | ○ | ○ |
| AddFace can be called multiple times to add multiple face images to a person object. | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Graphical user interface, text, application Description automatically generated
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/use-persondirectory

**NEW QUESTION 19**
- (Exam Topic 2)
You are building a Language Understanding model for an e-commerce platform. You need to construct an entity to capture billing addresses.
Which entity type should you use for the billing address?

A. machine learned
B. Regex
C. geographyV2
D. Pattern.any
E. list

**Answer:** B

**Explanation:**
A regular expression entity extracts an entity based on a regular expression pattern you provide. It ignores case and ignores cultural variant. Regular expression is best for structured text or a predefined sequence of alphanumeric values that are expected in a certain format. For example:

| Entity | Regular expression | Example |
|---|---|---|
| Flight Number | flight [A-Z]{2} [0-9]{4} | flight AS 1234 |
| Credit Card Number | [0-9]{16} | 5478789865437632 |

Incorrect answers
C: The prebuilt geographyV2 entity detects places. Because this entity is already trained, you do not need to add example utterances containing GeographyV2 to the application intents. GeographyV2 entity is supported in English culture.
The geographical locations have subtypes:

| Subtype | Purpose |
| --- | --- |
| poi | point of interest |
| city | name of city |
| countryRegion | name of country or region |
| continent | name of continent |
| state | name of state or province |

D: Pattern.any is a variable-length placeholder used only in a pattern's template utterance to mark where the entity begins and ends.
E: A list entity represents a fixed, closed set of related words along with their synonyms. You can use list entities to recognize multiple synonyms or variations and extract a normalized output for them. Use the recommend option to see suggestions for new words based on the current list.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-entity-types


**NEW QUESTION 22**
- (Exam Topic 2)
You are building a retail chatbot that will use a QnA Maker service.
You upload an internal support document to train the model. The document contains the following question: "What is your warranty period?"
Users report that the chatbot returns the default QnA Maker answer when they ask the following question: "How long is the warranty coverage?"
The chatbot returns the correct answer when the users ask the following question: 'What is your warranty period?'
Both questions should return the same answer.
You need to increase the accuracy of the chatbot responses.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order. (Choose three.)

**Actions**                                    **Answer Area**

Add a new question and answer (QnA) pair.

Retrain the model.

Add additional questions to the document.

Republish the model.

Add alternative phrasing to the question
and answer (QnA) pair.


A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Step 1: Add alternative phrasing to the question and answer (QnA) pair.
Add alternate questions to an existing QnA pair to improve the likelihood of a match to a user query. Step 2: Retrain the model.
Periodically select Save and train after making edits to avoid losing changes. Step 3: Republish the model
Note: A knowledge base consists of question and answer (QnA) pairs. Each pair has one answer and a pair contains all the information associated with that answer.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/edit-knowledge-base


**NEW QUESTION 27**
- (Exam Topic 2)
You are building a language model by using a Language Understanding service. You create a new Language Understanding resource.
You need to add more contributors. What should you use?

A. a conditional access policy in Azure Active Directory (Azure AD)
B. the Access control (1AM) page for the authoring resources in the Azure portal
C. the Access control (1AM) page for the prediction resources in the Azure portal

**Answer:** B

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-collaborate

**NEW QUESTION 31**
- (Exam Topic 2)
You are building a chatbot for a Microsoft Teams channel by using the Microsoft Bot Framework SDK. The chatbot will use the following code.

```
protected override async Task OnMembersAddedAsync(IList<ChannelAccount>
membersAdded, ITurnContext<IConversationUpdateActivity> turnContext,
CancellationToken cancellationToken)
{
    foreach (var member in membersAdded)
        if (member.Id != turnContext.Activity.Recipient.Id)
            await turnContext.SendActivityAsync($"Hi there - {member.Name}.
{WelcomeMessage}", cancellationToken: cancellationToken);
}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

**Answer Area**

| Statements | Yes | No |
|---|---|---|
| OnMembersAddedAsync will be triggered when a user joins the conversation. | ○ | ○ |
| When a new user joins the conversation, the existing users in the conversation will see the chatbot greeting. | ○ | ○ |
| OnMembersAddedAsync will be initialized when a user sends a message. | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Yes
The ActivityHandler.OnMembersAddedAsync method overrides this in a derived class to provide logic for when members other than the bot join the conversation, such as your bot's welcome logic.
Box 2: Yes
membersAdded is a list of all the members added to the conversation, as described by the conversation update activity.
Box 3: No Reference:
https://docs.microsoft.com/en-us/dotnet/api/microsoft.bot.builder.activityhandler.onmembersaddedasync?view=

**NEW QUESTION 35**
- (Exam Topic 2)
You need to create a new resource that will be used to perform sentiment analysis and optical character recognition (OCR). The solution must meet the following requirements:

≫ Use a single key and endpoint to access multiple services.

≫ Consolidate billing for future services that you might use.

≫ Support the use of Computer Vision in the future.
How should you complete the HTTP request to create the new resource? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

```
                   ▼    https://management.azure.com/subscriptions/xxxxxxxx-xxxx-
  PATCH
  POST
  PUT
xxxx-xxxx-
xxxxxxxxxxxx/resourceGroups/RG1/providers/Microsoft.CognitiveServices/
accounts/CS1?api-version=2017-04-18
{
  "location": "West US",
  "kind": "              ▼   ",
            CognitiveServices
            ComputerVision
            TextAnalytics
  "sku": {
    "name": "S0"
  },
  "properties": {},
  "identity": {
    "type": "SystemAssigned"
  }
}
```

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: PUT
Sample Request: PUT
https://management.azure.com/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test-rg
Reference:
https://docs.microsoft.com/en-us/rest/api/deviceupdate/resourcemanager/accounts/create https://www.analyticsvidhya.com/blog/2020/12/microsoft-azure-cognitive-services-api-for-ai-development/

**NEW QUESTION 38**
- (Exam Topic 2)
Your company wants to reduce how long it takes for employees to log receipts in expense reports. All the receipts are in English.
You need to extract top-level information from the receipts, such as the vendor and the transaction total. The solution must minimize development effort.
Which Azure Cognitive Services service should you use?

A. Custom Vision
B. Personalizer
C. Form Recognizer
D. Computer Vision

**Answer:** C

**Explanation:**
Azure Form Recognizer is a cognitive service that lets you build automated data processing software using machine learning technology. Identify and extract text, key/value pairs, selection marks, tables, and structure from your documents—the service outputs structured data that includes the relationships in the original file, bounding boxes, confidence and more.
Form Recognizer is composed of custom document processing models, prebuilt models for invoices, receipts, IDs and business cards, and the layout model.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/form-recognizer

**NEW QUESTION 43**
- (Exam Topic 2)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You develop an application to identify species of flowers by training a Custom Vision model. You receive images of new flower species.
You need to add the new images to the classifier.
Solution: You add the new images, and then use the Smart Labeler tool. Does this meet the goal?

A. Yes
B. No

**Answer:** B

**Explanation:**
The model need to be extended and retrained.
Note: Smart Labeler to generate suggested tags for images. This lets you label a large number of images more quickly when training a Custom Vision model.

**NEW QUESTION 46**
- (Exam Topic 2)
You plan to build a chatbot to support task tracking.
You create a Language Understanding service named lu1.
You need to build a Language Understanding model to integrate into the chatbot. The solution must minimize development time to build the model.
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order. (Choose four.)

**Actions**                              **Answer Area**

| Train the application. |
| Publish the application. |
| Add a new application. |
| Add example utterances. |
| Add the prebuilt domain ToDo. |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Step 1: Add a new application Create a new app
➤ Sign in to the LUIS portal with the URL of https://www.luis.ai.
➤ Select Create new app.
➤ Etc.
Step 2: Add example utterances.
In order to classify an utterance, the intent needs examples of user utterances that should be classified with this intent.
Step 3: Train the application Step 4: Publish the application
In order to receive a LUIS prediction in a chat bot or other client application, you need to publish the app to the prediction endpoint.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/tutorial-intents-only

**NEW QUESTION 51**
- (Exam Topic 2)
You have a Video Indexer service that is used to provide a search interface over company videos on your company's website.
You need to be able to search for videos based on who is present in the video. What should you do?

A. Create a person model and associate the model to the videos.
B. Create person objects and provide face images for each object.
C. Invite the entire staff of the company to Video Indexer.
D. Edit the faces in the videos.
E. Upload names to a language model.

**Answer:** A

**Explanation:**
Video Indexer supports multiple Person models per account. Once a model is created, you can use it by providing the model ID of a specific Person model when uploading/indexing or reindexing a video. Training a new face for a video updates the specific custom model that the video was associated with.
Note: Video Indexer supports face detection and celebrity recognition for video content. The celebrity recognition feature covers about one million faces based on commonly requested data source such as IMDB, Wikipedia, and top LinkedIn influencers. Faces that aren't recognized by the celebrity recognition feature are detected but left unnamed. Once you label a face with a name, the face and name get added to your account's Person model. Video Indexer will then recognize this face in your future videos and past videos.
Reference:
https://docs.microsoft.com/en-us/azure/media-services/video-indexer/customize-person-model-with-api

**NEW QUESTION 52**
- (Exam Topic 2)
You are developing a new sales system that will process the video and text from a public-facing website. You plan to monitor the sales system to ensure that it provides equitable results regardless of the user's
location or background.
Which two responsible AI principles provide guidance to meet the monitoring requirements? Each correct answer presents part of the solution. (Choose two.)
NOTE: Each correct selection is worth one point.

A. transparency

B. fairness
C. inclusiveness
D. reliability and safety
E. privacy and security

**Answer:** BD

**Explanation:**
AI systems should treat all people fairly.
AI systems should perform reliably and safely. Reference:
https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai

**NEW QUESTION 55**
- (Exam Topic 2)
You plan to provision a QnA Maker service in a new resource group named RG1. In RG1, you create an App Service plan named AP1.
Which two Azure resources are automatically created in RG1 when you provision the QnA Maker service? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

A. Language Understanding
B. Azure SQL Database
C. Azure Storage
D. Azure Cognitive Search
E. Azure App Service

**Answer:** DE

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/set-up-qnamaker-service-azure?tabs

**NEW QUESTION 60**
- (Exam Topic 2)
You are building a chatbot by using the Microsoft Bot Framework SDK.
You use an object named UserProfile to store user profile information and an object named ConversationData to store information related to a conversation.
You create the following state accessors to store both objects in state.
var userStateAccessors = _userState.CreateProperty<UserProfile>(nameof(UserProfile)); var conversationStateAccessors = _conversationState.CreateProperty<ConversationData>(nameof(ConversationData));
The state storage mechanism is set to Memory Storage.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

## Answer Area

| Statements | Yes | No |
| --- | --- | --- |
| The code will create and maintain the `UserProfile` object in the underlying storage layer. | ○ | ○ |
| The code will create and maintain the `ConversationData` object in the underlying storage layer. | ○ | ○ |
| The `UserProfile` and `ConversationData` objects will persist when the Bot Framework runtime terminates. | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Yes
You create property accessors using the CreateProperty method that provides a handle to the BotState object. Each state property accessor allows you to get or set the value of the associated state property.
Box 2: Yes
Box 3: No
Before you exit the turn handler, you use the state management objects' SaveChangesAsync() method to write all state changes back to storage.
Reference:
https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-v4-state

**NEW QUESTION 62**
- (Exam Topic 2)
You plan to deploy a containerized version of an Azure Cognitive Services service that will be used for text analysis.
You configure https://contoso.cognitiveservices.azure.com as the endpoint URI for the service, and you pull the latest version of the Text Analytics Sentiment Analysis container.

You need to run the container on an Azure virtual machine by using Docker.
How should you complete the command? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

**Answer Area**

```
docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \
```

| ▼ \ |
| --- |
| http://contoso.blob.core.windows.net |
| https://contoso.cognitiveservices.azure.com |
| mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase |
| mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment |

```
Eula=accept \
```

Billing=

| ▼ \ |
| --- |
| http://contoso.blob.core.windows.net |
| https://contoso.cognitiveservices.azure.com |
| mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase |
| mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment |

```
ApiKey=xxxxxxxxxxxxxxxxxxxx
```

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment
To run the Sentiment Analysis v3 container, execute the following docker run command. docker run --it -p 5000:5000 --memory 8g --cpus 1 \
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment \ Eula=accept \
Billing={ENDPOINT_URI} \
ApiKey={API_KEY} is the endpoint for accessing the Text Analytics API. https://<your-custom-subdomain>.cognitiveservices.azure.com
Box 2: https://contoso.cognitiveservices.azure.com
{ENDPOINT_URI} is the endpoint for accessing the Text Analytics API:
https://<your-custom-subdomain>.cognitiveservices.a The endpoint for accessing the Text Analytics API. zure.com
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-install-co

**NEW QUESTION 66**
- (Exam Topic 2)
You are developing a service that records lectures given in English (United Kingdom).
You have a method named AppendToTranscriptFile that takes translated text and a language identifier.
You need to develop code that will provide transcripts of the lectures to attendees in their respective language. The supported languages are English, French, Spanish, and German.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

**Answer Area**

```
static async Task TranslateSpeechAsync()
{
    var config =SpeechTranslationConfig.FromSubscription("69cad5cc-0ab3-4704-bdff-afbf4aa07d85", "uksouth");

    var lang = new List<string>                    ▼
```

| |
| --- |
| {"en-GB"} |
| {"fr", "de", "es"} |
| {"French", "Spanish", "German"} |
| {languages} |

```
    config.SpeechRecognitionLanguage = "en-GB";
    lang.ForEach(config.AddTargetLanguage);

    using var audioConfig = AudioConfig.FromDefaultMicrophoneInput();
    using var recognizer = new                    ▼   (config, audioConfig);
```

| |
| --- |
| IntentRecognizer |
| SpeakerRecognizer |
| SpeechSynthesizer |
| TranslationRecognizer |

```
    var result = await recognizer.RecognizeOnceAsync();
    if (result.Reason == ResultReason.TranslatedSpeech)
```

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: {"fr", "de", "es"}
A common task of speech translation is to specify target translation languages, at least one is required but multiples are supported. The following code snippet sets

both French and German as translation language targets.
static async Task TranslateSpeechAsync()
{
var translationConfig =
SpeechTranslationConfig.FromSubscription(SPEECH SUBSCRIPTION KEY, SPEECH SERVICE REGION);
translationConfig.SpeechRecognitionLanguage = "it-IT";
// Translate to languages. See, https://aka.ms/speech/sttt-languages translationConfig.AddTargetLanguage("fr"); translationConfig.AddTargetLanguage("de");
}
Box 2: TranslationRecognizer
After you've created a SpeechTranslationConfig, the next step is to initialize a TranslationRecognizer. Example code:
static async Task TranslateSpeechAsync()
{
var translationConfig =
SpeechTranslationConfig.FromSubscription(SPEECH SUBSCRIPTION KEY, SPEECH SERVICE REGION);
var fromLanguage = "en-US";
var toLanguages = new List<string> { "it", "fr", "de" }; translationConfig.SpeechRecognitionLanguage = fromLanguage;
toLanguages.ForEach(translationConfig.AddTargetLanguage);
using var recognizer = new TranslationRecognizer(translationConfig);
}


**NEW QUESTION 67**
- (Exam Topic 2)
You develop a test method to verify the results retrieved from a call to the Computer Vision API. The call is used to analyze the existence of company logos in images. The call returns a collection of brands named brands.
You have the following code segment.

```
foreach (var brand in brands)
{
    if (brand.Confidence >= .75)
        Console.WriteLine($"Logo of {brand.Name} between {brand.Rectangle.X},
{brand.Rectangle.Y} and {brand.Rectangle.W}, {brand.Rectangle.H}");
}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

## Answer Area

| Statements | Yes | No |
| --- | --- | --- |
| The code will return the name of each detected brand with a confidence equal to or higher than 75 percent. | ○ | ○ |
| The code will return coordinates for the bottom-left corner of the rectangle that contains the brand logo of the displayed brands. | ○ | ○ |
| The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands. | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Yes
Box 2: Yes
If several logs are detected, or the logo image and the stylized brand name are detected as two separate logos, it starts numbering them from the bottom-left corner.
Box 3: No Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-brand-detection


**NEW QUESTION 71**
- (Exam Topic 2)
You are building an Azure Cognitive Search custom skill. You have the following custom skill schema definition.

```
{
    "@odata.type": "#Microsoft.Skills.Custom.WebApiSkill",
    "description": "My custom skill description",
    "uri": "https://contoso-webskill.azurewebsites.net/api/process",
    "context": "/document/organizations/*",
    "inputs": [
        {
            "name": "companyName",
            "source": "/document/organizations/*"
        }
    ],
    "outputs": [
        {
            "name": "companyDescription",
        }
    ]
}
```

For each of the following statements, select Yes if the statement. Otherwise, select No.
NOTE: Each correct selection is worth one point.

## Answer Area

| Statements | Yes | No |
|---|---|---|
| CompanyDescription is available for indexing. | ○ | ○ |
| The definition calls a web API as part of the enrichment process. | ○ | ○ |
| The enrichment step is called only for the first organization under "/document/organizations". | ○ | ○ |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Box 1: Yes
Once you have defined a skillset, you must map the output fields of any skill that directly contributes values to a given field in your search index.
Box 2: Yes
The definition is a custom skill that calls a web API as part of the enrichment process. Box 3: No
For each organization identified by entity recognition, this skill calls a web API to find the description of that organization.
Reference:
https://docs.microsoft.com/en-us/azure/search/cognitive-search-output-field-mapping

**NEW QUESTION 74**
- (Exam Topic 2)
You have a Custom Vision resource named acvdev in a development environment. You have a Custom Vision resource named acvprod in a production environment.
In acvdev, you build an object detection model named obj1 in a project named proj1. You need to move obj1 to acvprod.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

| Actions | | Answer Area |
|---|---|---|
| Use the ExportProject endpoint on acvdev. | | |
| Use the GetProjects endpoint on acvdev. | | |
| Use the ImportProject endpoint on acvprod. | ⊙ | ⊙ |
| Use the ExportIteration endpoint on acvdev. | ⊙ | ⊙ |
| Use the GetIterations endpoint on acvdev. | | |
| Use the UpdateProject endpoint on acvprod. | | |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Text Description automatically generated
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/copy-move-projects

**NEW QUESTION 78**
- (Exam Topic 2)
You are developing a streaming Speech to Text solution that will use the Speech SDK and MP3 encoding. You need to develop a method to convert speech to text for streaming MP3 data.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

```
var audioFormat = [                              ▼] (AudioStreamContainerFormat.MP3);
                   ┌──────────────────────────────────┐
                   │ AudioConfig.SetProperty           │
                   │ AudioStreamFormat.GetCompressedFormat │
                   │ AudioStreamFormat.GetWaveFormatPCM │
                   │ PullAudioInputStream              │
                   └──────────────────────────────────┘

var speechConfig = SpeechConfig.FromSubscription("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus");

var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat);

using (var recognizer = new [          ▼] (speechConfig, audioConfig))
                        ┌────────────────────────┐
                        │ KeywordRecognizer       │
                        │ SpeakerRecognizer       │
                        │ SpeechRecognizer        │
                        │ SpeechSynthesizer       │
                        └────────────────────────┘
{

var result = await recognizer.RecognizeOnceAsync();

var text = result.Text;

}
```

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
Graphical user interface, text, application, email Description automatically generated
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-codec-compressed-audio-i

**NEW QUESTION 80**
- (Exam Topic 2)
You are developing a new sales system that will process the video and text from a public-facing website. You plan to notify users that their data has been processed by the sales system.
Which responsible AI principle does this help meet?

A. transparency
B. fairness
C. inclusiveness
D. reliability and safety

**Answer:** D

**Explanation:**
Reference:
https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai

**NEW QUESTION 83**
......

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